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MINUTES.

Thirty-ninth Annual Meeting, Kansas Academy of Science, November 29, 30, and December 1, 1906.

TOPEKA, KAN., November 29, 1906.

BY appointment of the executive committee, the Kansas Academy of Science met at its rooms, and was opened at eight P. M., with the president, F. O. Marvin, in the chair. About twenty-five members were present. By adjustment of the museum tables it was found that this room gave ample space for the meeting and was altogether convenient and commodious.

TREASURER'S REPORT.

Reports of officers being called for, the treasurer presented the following:

ACCOUNT OF THE TREASURER OF THE KANSAS ACADEMY OF SCIENCE TO NOVEMBER 29, 1906.

Receipts.

Balance on hand from last year.....	\$488 23
Fees and dues.....	132 70
Sale of Transactions.....	12 99
Total.....	<u>\$633 83</u>

Expenditures.

December 14, 1905.	To typewriting programs.....	\$1 25
February 6, 1906.	Reprinting volume IV.....	78 20
March 20, 1906.	Illustrations.....	5 50
March 20, "	Subscription, <i>Journal of Geology</i>	3 50
March 20, "	Express.....	1 00
March 20, "	Reprinting volume V.....	88 55
April 18, "	Reprinting volume VI.....	108 10
July 20, "	Reprinting volume VII.....	157 00
December 3, 1905.	Placed on time deposit	250 00
Total.....		<u>\$693 10</u>

November 29, 1906, balance due treasurer, \$59.27.

On motion, this report was referred to W. A. Harshbarger, as auditor, and found correct. Approved.

SECRETARY'S REPORT.

The secretary is pleased to chronicle another year of progress for the Academy. We are now fairly entered on the era of annual volumes of our Transactions, and our colleagues will have the encouragement of publishing at an early date whatever contributions they may make to scientific discovery. We can do this because it is of mutual convenience to the state printer and to the Academy, and no one will object so long as this plan does not increase the expense to the state. A certain annual appropriation is now admitted as reasonable, and with the growth of the state and its institutions, the Academy may expect to share recognition according to its merit. It is of course expected that in biennial years the legislative printing will take the precedence in the state printing-office, and in order to have early publication in such years, our Transactions must be in hands of the printer before the legislative rush begins. Past experience shows that delays are most likely to come from neglect of members to get their papers ready for the press; and to secure the results now aimed at, the papers ought after being read at the annual meeting, to be placed at once in the hands of the secretary for publication. The time may come when our Transactions will be issued as quarterly bulletins and so save a considerable item of expense on their distribution by mail. Following the custom of past years, the secretary issued an announcement in the summer of the coming annual meeting, and this is sent to all members and to others who may be stimulated to joining in our work.

THE MUSEUM.

Care of the museum is part of the secretary's duty. The ability and good fortune of my predecessor, Doctor Grimsley, enabled him to lay the foundation of a very useful economic museum for our state. This must be enlarged and improved till we can show the forms and distribution of our mineral wealth. As this museum had its inception in the St. Louis Exposition, so the coming Kansas semicentennial ought to bring it to perfection. It will be for the Academy to guide in this development, and there is no way in which we may expect more cordial cooperation or in which we may be more useful to the state. This is one of the ways in which we may show ourselves worthy of being a "coordinate branch of the State Board of Agriculture."

THE LIBRARY.

The growth of our library is an illustration of the comity and universality of science. In this realm there are no state lines, no political divisions. Our fellow workers, whether in Australia, St. Petersburg, or Peru, are ready to share with us in their discussions and to rejoice in our discoveries. So from the beginning of our history we have found other scientific bodies, all over the world, ready to exchange with us their publications, even when our members were few and our Transactions only filled a small pamphlet. In these exchanges we have been conscious of getting the better end of the trade, and our older sister societies have shown their sympathy in being willing to accept our productions and wait for us to grow to something better. We have grown, and our late volumes make a respectable showing as compared with others of their class. Reprints of the first seven volumes enable us to exchange complete sets of the first twenty volumes, and we can, with some assurance, offer these for the valuable works coming to us from other societies.

ACCESSIONS.

During the past year we have received not less than 500 unbound volumes, pamphlets, and parts of volumes, which are filed away and await the time for binding. Several hundred volumes are now in a greater or lesser state of completeness, and in some cases missing numbers will be difficult to secure. Some of them may be purchased, but it will require much correspondence, and will be impossible always to get complete *sets*, though we may have complete volumes.

Over fifty bound volumes have come to us during the year, the larger portion of these being from the Smithsonian, and other government departments in Washington. Many of these are of great value, bulky, finely illustrated, and would be a valuable acquisition for any library.

Our library has a good many volumes in foreign languages, which will interest only a small number of our members, but it is important to have one collection in the state where these foreign books may be consulted.

In government publications like those of the Smithsonian, of the Geological Survey, and of the Agricultural Department, our files are duplicated, both in the State Library and in the State Historical Society. The latter has the most complete collection found in our state-house of these books.

CATALOGUING.

The usefulness of a library depends largely on a convenient catalogue. In the Transactions, from volume X *et seq.*, much space has been given to the librarian's reports, wherein catalogues and lists of accessions to the library have been published. The library contains a card catalogue, where the volumes are grouped by countries and by titles. From our Transactions, volumes XIV to XVIII, inclusive, in the librarian's reports, may be found a record which gives substantially the contents of our library. There is also an authors' card catalogue and a subject card catalogue, on which considerable time has been spent. To complete these according to modern library standards, with cross-references, etc., will require much labor as well as skill. Before undertaking any very complete system of cataloguing, it may be well to consider our connection with other libraries and book collections in the state-house, and see whether a common union and management of these is not feasible. Needless duplication of books could be avoided, expense of binding saved, and, more important than all, a single and complete catalogue might be kept where it could be found, if any desired volume was available anywhere in the state-house.

PURCHASE OF NEW BOOKS.

Funds available for buying new books have been applied this year to reprinting volumes IV to VII of our Transactions. Money will be further needed to secure missing numbers in the volumes of exchanges above alluded to, and it is desirable to have our material bound as early as possible. From membership fees and dues a small income is assured which may be applied to the library and to other Academy work.

After report of the treasurer and secretary, President Marvin named the following committees:

On nominations: Willard, Wooster, and Cady.

On resolutions: Knaus, Bailey, and Yates.

On program : Sayre and Harshbarger.

On necrology : Thompson, Sternberg, and McWharf.

On publication : The retiring president, the secretary, and one member from Topeka—in this instance, Professor Dains.

On membership : Cooper, Harshbarger, and Miss Meeker.

On time and place for next meeting : Welin, Shattuck, and Smith.

There being time, on motion the Academy next listened to a paper by Prof. L. E. Sayre, numbered 2 on the program, entitled, "Drug Standards with Reference to the Pure Food and Drug Law."

The meeting adjourned to meet to-morrow morning at nine o'clock.

ACADEMY ROOMS, Friday, nine A. M.

President Marvin announced the committee on library, as follows : Professors Shattuck, Kay, and Wilm.

The committee on membership reported the following applications to become members of the Academy :

Wm. Leslie Moodie, laboratory assistant in biology, Kansas University, Lawrence.

Robert Kennedy Duncan, professor of industrial chemistry, Kansas University, Lawrence.

Archie J. Werth, assistant chemist State Water Survey, Lawrence.

Arthur D. Pitcher, instructor mathematics, Kansas University, Lawrence.

E. C. Wilm, teacher in Washburn College, Topeka.

Wm. Aitkinhead, teacher in Washburn College, Topeka.

Frank Gephart, fellow in chemistry, Kansas University, Lawrence.

Wm. O. Starin, fellow in biology, Kansas University, Lawrence.

Leslie A. Kenoyer, student, Independence.

M. A. Low, general attorney Chicago, Rock Island & Pacific railway, Topeka.

T. L. Eyerly, science teacher, Canadian, Tex.

L. M. Powell, M. D., physician and surgeon, Topeka.

Gertrude E. Hole, teacher, Manhattan.

M. A. Pond, teacher of penmanship, Topeka.

Miriam Sheldon, teacher of science, College of the Sisters of Bethany, Topeka.

W. M. Bailey, teacher natural science, Holton.

H. A. Horton, student in botany, McPherson.

On motion, it was voted that the rules be suspended, and the secretary was instructed to cast the ballot of the Academy for the persons named in this report. The ballot was duly cast, and they were accepted as members of the Academy on complying with the condition of fees and enrolment.

The Academy divided into sections and resumed the reading of papers, as announced on the published program.

SECTION A.

B. F. Eyer, chairman; J. A. Yates, secretary.

No. 1. Dances of the Jemez Pueblo Indians (by title), Albert B. Reagan.

No. 3. Modulus of lunar influence—not in lifting but in falling movement (by title), J. J. Jewett.

No. 4. A most wonderful tool, John H. Klopfer.

No. 5. Harmonic forms—plane forms (second paper), B. B. Smyth.

No. 6. The form and dimensions of the earth, H. I. Woods.

No. 7. On the composition of Kansas oil, F. W. Bushong.

No. 8. The quantitative estimation of iron and cobalt by the rotating cathode, R. W. Curtis and S. A. McReynolds.

No. 9. On the formation of azo compounds, F. B. Dains.

No. 10. On the precipitation of potassium ferrocyanide in the presence of ammonium salts, F. B. Dains.

No. 11. Method of analysis for pharmaceutical preparations (by title), L. D. Havenhill.

No. 12. Method for the detection of small quantities of benzene in gases (by title), W. F. Faragher.

No. 13. The pharmaceutical industry of America (by title), H. W. Emerson.

No. 17. Short methods for drug assay (by title), H. W. Emerson.

No. 49. A test for artificial bleaching of flour (by title), J. T. Willard.

No. 51. The capacity of a condenser as a function of time, as found by the method of direct discharge as well as by alternating currents (by title), Bruce V. Hill.

No. 37. Nature photography in Kansas—the work of Mr. and Miss McColm, Grace R. Meeker.

Voted that the privileges of the floor be extended to all visitors.

Adjourned, to meet in general session in the manual training high school hall, at two o'clock P. M.

SECTION B.

J. E. Welin, chairman; W. A. Harshbarger, secretary.

The section met in the library of the Academy, and the following program was presented:

No. 18. Some geological studies on northwestern Washington, and adjacent British territory (by title), Albert B. Reagan.

No. 19. Development of forest belts in the northwestern part of Clay county, Kansas (by title), John H. Schaffner.

No. 20. An adequate cause for extremes of climate in geological periods (by title), J. J. Jewett.

No. 21. Records of desultory collecting in Kansas and Colorado (by title), E. S. Tucker.

No. 22. Contributions towards a catalogue of insects in Kansas (by title), E. S. Tucker.

No. 23. Corrections and additions to the list of Kansas mammals (by title), D. E. Lantz.

No. 24. Remarks on the bird fauna of Kansas (by title), D. E. Lantz.

No. 25. Catalogue and key of the Kansas flora (by title), Bernard B. and Lumina Riddle Smyth, and John H. Schaffner.

No. 26. Food habits of our Kansas lizards and batrachians (by title), F. A. Hartman.

No. 27. A list of hymenoptera collected in Arizona in 1902, 1903, 1904, 1905 and 1906 by the Kansas entomological expeditions, F. H. Snow.

No. 28. Recent additions to the bird fauna of Kansas, F. H. Snow.

No. 29. Soil bacteria (by title), L. C. Wooster.

No. 45. Additions to the list of Kansas coleoptera for 1906, W. Knaus.

No. 46. Sacramento mountains, New Mexico, coleoptera, W. Knaus.

No. 47. Notes on Kansas coleoptera, W. Knaus.

No. 48. Kansas Carabidæ, Cerambycidæ, and Chrysomelidæ, W. Knaus.

Many of these papers were read by title and others by abstracts, so that not much time was consumed, and session was adjourned to meet with section A.

GENERAL SESSION, FRIDAY, NOVEMBER 30.

MANUAL TRAINING HALL, two P. M.

No. 30. Preliminary announcement of a serial catalogue of periodicals, transactions, etc., found in the Academy of Science, Washburn College and state libraries, F. B. Dains.

No. 31. Some tests of Kansas road metals, F. O. Marvin.

No. 32. Kansas climatology, T. B. Jennings.

No. 33. The spectrum and spectrum scales, J. T. Lovewell.

No. 34. Is the Gila monster (*Heloderma suspecta* Cope) a venomous reptile? F. H. Snow.

No. 35. Heredity in stock-breeding, I. D. Graham.

No. 36. Nomenclature of the Kansas Coal Measures (by title), E. Haworth and J. Bennett.

No. 38. The composition of ice-cream, Frank Gephart and E. H. S. Bailey.

No. 39. Some animals I have discovered in the fossil beds of Kansas, Charles H. Sternberg.

No. 40. Some results of the entomological expedition to Arizona in June and July, 1906, F. H. Snow.

No. 41. Coffee—analysis of different qualities, L. E. Sayre.

No. 50. Noise—its relation to health, disease, and longevity, J. M. McWharf.

No. 52. The measurement and comparison of sound intensities (by title), Bruce V. Hill.

Presidential address, recent movements in engineering, F. O. Marvin.

At the close of this address it was voted to hold the next general session at nine A. M. December 1, at Washburn observatory. The session adjourned for a banquet tendered by the local members at the Y. W. C. A. rooms.

BANQUET.

For many years it has been customary for the members to break bread together at least once during the annual session, and these occasions help to knit closer our comradeship. The tables on this occasion were made cheery with floral decorations, and a neat menu, interspersed with appropriate and suggestive quotations, gave piquancy to the nicely served viands.

Dr. A. H. Thompson acted as toastmaster, and in the post-prandial program gracefully introduced the speakers who had been chosen to enliven the feast and enable members for the moment to unbend from serious work. A poem by Mrs. Joseph Savage, one of our earliest members, was read, and received with cordial applause.

J. C. Cooper gave the address of welcome on behalf of the local committee, and the following gentlemen responded to toasts with great acceptance: F. O. Marvin, B. F. Eyer, J. E. Welin, L. E. Sayre, J. I. McWharf, Warren Knaus, F. H. Snow, and B. B. Smyth.

GENERAL SESSION, DECEMBER 1, 1906.

WASHBURN OBSERVATORY, nine A. M.

The committee on place and time of meeting reported as follows :

That the annual meeting of the Academy for 1907 be held in the city of Emporia ; the time is to be left in the hands of the executive committee.

J. E. WELIN,
C. H. SHATTUCK,
ALVA J. SMITH,
Committee.

Report approved. The committee on nomination of officers reported their nomination for—

President, J. A. Yates, Ottawa.
Vice-president, E. Haworth, Lawrence.
Vice-president, F. B. Dains, Topeka.
Secretary, J. T. Lovewell, Topeka.
Treasurer, A. J. Smith, Emporia.

On motion, the rules were suspended, and J. C. Cooper cast the ballot of the Academy for the candidates named by the committee for officers and they were declared duly elected.

On motion, J. C. Cooper was granted life membership, on complying with conditions relating to dues, if there be any in his case.

It was voted that back volumes of the Transactions be furnished to members at one-half the published list price.

Voted that the committee on publication be instructed to publish "separates" or reprints, when these are desired by authors of papers, provided that the financial end of the proposition be made satisfactory.

Reading of papers was continued, as follows :

No. 44. Structure and classification of wood found in the moraines of Jackson county, C. H. Shattuck.

No. 43. Some notes on the origin of heterospory, as shown in cultures of *Marsilea* (illustrated by the reflectoscope), C. H. Shattuck.

No. 42. The accuracy of a modern balance and set of weights, H. I. Woods and Alice K. McFarland.

On motion, the secretary was instructed to send greetings and programs to J. R. Mead, L. C. Wooster, and Mrs. Joseph Savage.

RESOLUTIONS.

The committee on resolutions reported :

Resolved, That the thanks of the Academy of Science are due the local members of the Academy and their friends, for the agreeable banquet and reception so generously tendered.

Resolved, That we appreciate the favor shown us by the papers of Topeka, in their report of our daily proceedings, and thank them for their courtesy.

Resolved, That we thank the faculty of Washburn College and the Topeka board of education, for the facilities afforded us in holding our meetings.

W. KNAUS,
E. H. S. BAILEY,
J. A. YATES,
Committee.

On motion, the Academy adjourned *sine die*.